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ABSTRACT OF THE DISCLOSURE

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PROCESS FOR WRITING BRAGG GRATINGS, APPARATUS FOR THE
USE OF THIS PROCESS AND BRAGG GRATING DEVICES OBTAINED
BY THIS PROCESS

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Process for writing Bragg gratings, apparatus for using this process and Bragg grating devices obtained by this process.

According to the invention, a Bragg grating is written in a light guide (36) by transferring the interference pattern between two light beams (28, 30) with the same wavelength and coherent with each other but with an angular offset, directly into the substrate due to a photosensitivity phenomenon within the same said substrate, this interference pattern being transferred in the substrate in the form of a modulation of the refraction index of this substrate. At least one of the said light beams is divided into at least two sub-beams offset in phase with respect to each other.

Figure 10.